

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (previously presented) A-surface mount circuit protection device comprising:
 - (a) a laminar PTC resistive element having first and second major surfaces and a thickness therebetween, said resistive element comprising a conductive polymer composition;
 - (b) a first electrode layer formed at the first major surface and being substantially coextensive therewith, and comprising a first metal material of a type adapted to be soldered to a printed circuit substrate for effecting surface mounting of the device;
 - (c) a second electrode layer formed at the second major surface and being substantially coextensive therewith;
 - (d) weld plate means of metal material formed separately of and extending from the second electrode layer and having a thermal mass capable of withstanding resistance micro spot welding of a strap interconnect means without significant resultant damage to the device, said weld plate means including a raised central mesa region; and

- (e) an insulative box surrounding outer edges of the device and defining an opening exposing the central mesa region.
7. (original) The surface mount circuit protection device set forth in claim 1 wherein the weld plate means has a minimum thickness of 0.100 mm.
8. (original) The surface mount circuit protection device set forth in claim 1 wherein the weld plate means has a thickness in a range of 0.100 mm and 0.300 mm.
9. (original) The surface mount circuit protection device set forth in claim 1 further comprising a printed circuit board assembly to which the device is surface mounted and electrically connected.
10. (previously presented) The surface mount circuit protection device set forth in claim 9 wherein the printed circuit board assembly forms a battery protection circuit module and is mounted to and electrically connected to a battery or cell by battery strap interconnects, one of said battery strap interconnects being micro spot welded to the weld plate means.
11. (canceled)
12. (canceled)
13. (canceled)
14. (canceled)
15. (canceled)
16. (previously presented) A surface mount circuit protection device comprising:
- (a) a laminar PTC resistive element having first and second major surfaces and a thickness therebetween, said resistive element comprising a conductive polymer composition;

- (b) a first electrode layer formed at the first major surface and being substantially coextensive therewith, and comprising a first metal foil layer enabling the device to be surface mounted by solder to a printed circuit;
- (c) a second electrode layer formed at the second major surface and being substantially coextensive therewith, and comprising a second metal foil layer;
- (d) a weld plate of metal material secured to the second metal foil layer and having a volume, thickness and thermal mass sufficient to withstand micro spot welding of a strap interconnect means without significant resultant damage to the device, said weld plate including a raised central mesa region; and
- (e) an insulative box surrounding outer edges of the device and defining an opening exposing the central mesa region.

17. (currently amended) A battery protection circuit assembly including a printed circuit substrate, a plurality of electrical components attached to the printed circuit substrate including a surface mounted circuit protection device comprising:

- (a) a laminar PTC resistive element having first and second major surfaces and a thickness therebetween, said resistive element comprising a conductive polymer composition;
- (b) a first electrode layer formed at the first major surface and being substantially coextensive therewith, and comprising a first metal foil layer enabling the device to be surface mounted by solder to a printed circuit;
- (c) a second electrode layer formed at the second major surface and being substantially coextensive therewith, and comprising a second metal foil layer; and
- (d) a weld plate of metal material secured to the second metal foil layer and having a volume, thickness and thermal mass sufficient to withstand micro spot welding of a strap interconnect means without significant resultant damage to the device, said weld plate means including a raised central mesa region; and

- (e) an insulative box surrounding outer edges of the device and defining an opening exposing the central mesa region.

18. (previously presented) The battery protection circuit assembly set forth in claim 17 comprising at least one electrochemical lithium polymer cell, the cell having first and second terminal tabs, wherein at least one of the following conditions applies:

- (a) the first tab comprises said strap interconnect means being micro spot welded to the weld plate, and
- (b) the second tab being connected to circuitry of the printed circuit substrate.

19. (original) The battery protection circuit assembly set forth in claim 17 wherein the weld plate has an area substantially coextensive with a facing surface area of the second metal foil layer and has a thickness in a range of 0.100 mm and 0.300 mm.

20. (original) The battery protection circuit assembly set forth in claim 17 wherein the weld plate comprises one of nickel and nickel-plated stainless steel.

21. (new) The surface mount protection device set forth in claim 6 wherein the weld plate comprises one of nickel and nickel-plated stainless steel.